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**H03M 7/30****G06F 15/66****G10L 9/18****H04N 1/415****H04N 7/13**(21) Application number: **05260908**(22) Date of filing: **19.10.93**(30) Priority: **01.12.92 JP 04321976**(71) Applicant: **NIPPON TELEGR & TELEPH  
CORP <NTT>**(72) Inventor: **UEDA SHUKO****(54) DESIGN METHOD FOR VECTOR QUANTIZER  
AND VECTOR QUANTIZER****(57) Abstract:**

**PURPOSE:** To provide the method minimizing average distortion regardless of signal distribution in the design of a code book.

**CONSTITUTION:** A code word is 'copied' or 'lost' based on the 'principle of equal distortion'. For example, when each code word is selected at a closest vector, a distortion  $d(x, y)$  is integrated (103), and when an input data number (t) reaches a number T (101), an adaptive degree is calculated (105) in response to an accumulated distortion  $g_1 (= \sum d(x, y_c))$ , a copy of the relevant code word is generated in terms of probability in response to the adaptive degree (106) and a new code word group is obtained by adding a random vector to each copy respectively (107) and the code book is revised by the code word group (108).

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